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LT18XX-81 5.0MM ROUND LAMP

Features

* LOW CURRENT REQUIREMENTS
* HIGH LIGHT OUTPUT
* RELIABLE AND RUGGED
* IC COMPATIBLE

Jameco Part Number
152856

Absolute Maximum Ratings at T_A=25℃

REVERSE VOLTAGE (<100 μA)	GaAsP RED 3.0 V , OTHER 5.0V
D.C. FORWARD CURRENT	30mA
PULSE CURRENT (1/10 DUTY CYCLE,0.1 ms PULSE WIDTH)	100 mA
OPERATING TEMPERATURE RANGE	-25℃ TO + 85℃
STORAGE TEMPERATURE RANGE	-25℃ TO +100℃
LEAD SOLDERING TEMP. (1.6mm FROM BODY)	260℃ FOR 5 SEC.

Electrical/optical characteristics at T_A=25℃

PART NUMBER		LED CHIP		LEN'S COLOR		PEAK WAVELENGTH @20 mA (nm)	FORWARD VOLTAGE @20mA(V)		LUMINOUS INTENSITY @20mA(mcd)		VIEW ANGLE $2\theta_{1/2}$ (deg)
		MATERIAL	EMITTING COLOR				TYP.	MAX.	MIN.	TYP.	
LT1811-81	LT1812-81	GaAsP	RED	R.D	W.D	655	1.7	2.0	1.6	1.7	44
LT1811G-81	LT1812G-81	GaP	RED	R.D	W.D	700	2.1	3.0	2.5	4.1	44
LT1821-81	LT1822-81	GaP	GREEN	G.D	W.D	567	2.1	2.6	12.0	20.0	44
LT1831-81	LT1832-81	GaAsP ON GaP	YELLOW	Y.D	W.D	585	2.1	3.0	9.8	16.4	44
LT1841-81	LT1842-81	GaAsP ON GaP	ORANGE	O.D	W.D	635	2.1	3.0	13.9	23.1	44
LT1841R-81		GaAsP ON GaP	ORANGE	R.D		635	2.1	3.0	13.9	23.1	44
LT1813-81	LT1814-81	GaAsP	RED	W.C	R.C	655	1.7	2.0	5.5	9.2	22
LT1813G-81	LT1814G-81	GaP	RED	W.C	R.C	700	2.1	3.0	8.4	14.0	22
LT1823-81	LT1824-81	GaP	GREEN	W.C	G.C	567	2.1	2.6	40.9	68.1	22
LT1833-81	LT1834-81	GaAsP ON GaP	YELLOW	W.C	Y.C	585	2.1	3.0	33.5	55.8	22
LT1843-81	LT1844-81	GaAsP ON GaP	ORANGE	W.C	O.C	635	2.1	3.0	47.3	78.8	22
	LT1844R-81	GaAsP ON GaP	ORANGE		R.C	635	2.1	3.0	47.3	78.8	22

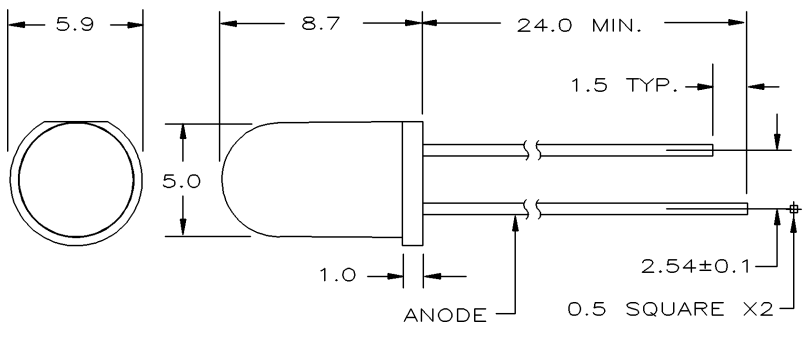
(1) LEN'S COLOR

R.D…..RED DIFFUSED
G.D…..GREEN DIFFUSED
Y.D…..YELLOW DIFFUSED
O.D…..ORANGE DIFFUSED
W.D…..WHITE DIFFUSED
R.C….RED CLEAR
G.C….GREEN CLEAR
Y.C….YELLOW CLEAR
O.C….ORANGE CLEAR
W.C….WATER CLEAR

(2) SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

(3) ALL ABOVE COMPONENTS ARE CONSIDERED . DEVIATIONS FROM STATED SPECIFICATIONS WILL REQUIRE A NEW PART NUMBER BE ASSIGNED .

Package Dimensions



1. ALL DIMENSIONS ARE IN mm, TOLERANCE IS±0.25mm UNLESS OTHERWISE NOTED.
2. AN EPOXY MENISCUS MAY EXTEND ABOUT 1.0mm DOWN THE LEADS.
3. BURR AROUND BOTTOM OF EPOXY BODY MAY BE 0.5mm MAX.

Radiation Pattern